

**RESEARCH
AND
DEVELOPMENT COMMITTEE
(R & D)
AY: 2023-2024**



ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK, Accredited by NBA & NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Ref: ACOE/R&D/2023-24/Constitution of R&D

19-06-2023

CONSTITUTION OF RESEARCH AND DEVELOPMENT COMMITTEE

The undersigned is pleased to constitute the Research and Development Committee with the following members for the academic year 2023-24 to plan and enhance the quality aspects in research and development of our college.

S.No	Name	Designation	Roll
1.	Dr.A.Ramesh	Principal	Chairman
2.	Dr Marxim Rahula Bharathi B	Associate Professor – ME	Coordinator
3.	Dr. R.Raman	Professor – ECE	Co-Coordinator
4.	Dr. Pullela SVVSR Kumar	Dean – A&A	Member
5.	Dr. G S N Murthy	HoD – CSE	Member
6.	Dr. G.Rama Krishna	HoD – ECE	Member
7.	Dr.Y.K.Subba Rao	HoD – ME	Member
8.	Prof. K. Manoj Kumar Reddy	HoD – EEE	Member
9.	Dr. Rajasekhara Chokkareddy	HoD – H&BS	Member
10.	Dr. Vandanapu Swamy Nadh	HoD – CE	Member
11.	Dr B. Kiran Kumar	HoD-AI&ML/IoT	Member
12.	Dr. B.V. Rama Krishna	Associate Professor – CSE	Member
13.	Dr. U S B K Mahalakshmi	Professor – ECE	Member
14.	Dr. M.Ravindra	Associate Professor – EEE	Member
15.	Dr. G.Balaji Prakash	Associate Professor – H&BS	Member
16.	Dr. A. Lakshmi Lavanya	Assistant Professor – H&BS	Member
17.	Ms. Patrayuni Vijaya Srivalli	Regd. No. 21MH1A04H2 III Year, B.Tech – ECE	Student Member
18.	Ms. Kada Susmitha	Regd. No. 21MH1A0515 III Year, B.Tech – CSE	Student Member

Cc to all members of R&D Committee




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Ref: ACOE/R&D/2023-24/SOP

Date: 21-06-2023

Research and Development committee

Standard Operating Procedure 2023-24

Research and Development cell is an integral part of the academic activities of an institution. This committee is one of the wings of the Institute which facilitates, channelizes all the academic, sponsored, collaborative research projects and consultancy works in the institute. The committee's responsibilities in respect of the establishment and promotion of excellence in the Institute's research and development, academic and research training activities. This includes the development, review and monitoring of achievements under the Research & Development.

1. To create awareness about opportunities in Research and Development among the students and faculty and to create Research and Development atmosphere in every department.
2. To encourage faculty members of all the disciplines (Engineering /Science /Humanities/Management) to improve R&D activities for their professional growth.
3. To encourage and motivate the faculty to apply for Ph.D at various Universities.
4. To motivate the faculty members to enhance R&D activities by forming them into groups based on their areas of interests/specialization.
5. To encourage staff members and students to publish technical articles for publishing in reputed National or International Conferences/Journals.
6. To undertake research activities and development projects offered by agencies such as ISRO, DRDO, CSIR, DST, AICTE, UGC, etc.

7. To assist the students to apply funding for conducting research and startups under student project scheme through various funding agencies like MSME, IEL (I), DRDO, TCS, Infosys etc.
8. To assist faculty for applying and getting funds under various research schemes for research promotion and conducting Seminar/Workshop/FDP from various funding agencies.
9. To facilitate the growth of research activity among the academic community, including developing mechanisms and setting targets to achieve this.
10. To develop and coordinate strategies for maximizing the faculty's success in gaining external research funding.
11. To maintain and disseminate current information about relevant research policy areas and initiatives in government agencies, relevant industries and external funding opportunities.
12. To develop strategies to foster research collaborations within the faculty, across faculty and institutes, and with agencies outside the college.
13. To work with various departments to establish and develop faculty research priorities on interdisciplinary areas.
14. To interact with industry, government, professionals and the wider community on all research matters and promote faculty research activities.
15. To coordinate faculty level workshops and staff development activities on research-related issues.
16. To maintain effective links with government departments, authorities, business, and commerce and industry organizations relevant to the college research activities.
17. Scrutinize the project proposals submitted by the students /staff and forwarding the same for financial assistance.
18. Advising the faculty members to publish their research work in Web of Science/ Scopus indexed journals since they are having more credentials in NIRF ranking.
19. Oversee the application of the Code of Research Ethics for the responsible practice of research.

20. The committee will review the originality and quality of the content before publishing.

21. Recommending incentives for publishing articles/ patents/ book chapters/ consultancy projects as per the Incentive norms.

22. Evolution Procedure of Research contribution by Faculty/Students

Research and Consultancy Projects

Faculty members are encouraged to submit research projects to various funding agencies. The following are SOP for Research Projects submission.

- I. Research area of interests of the faculty members is identified.
- II. Faculty members have to prepare their documentation for their research projects.
- III. Faculty need to submit quality research and consultancy projects following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to submit the proposal will be provided.
- VI. After the approval of the R&D cell the research project proposal can be submitted to the agency.
- VII. The flowchart for the Research and Consultancy Projects is attached.

Research Publications

Faculty members are encouraged to submit research papers to the reputed journals and conferences. The following are SOP for Research paper publications.

- I. Research area of interests of the faculty members is identified.
- II. Faculty members have to prepare their documentation for their research papers.
- III. Faculty need to submit quality research publications following ACOE code of ethics.

- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to submit the research paper will be provided.
- VI. After the approval of the R&D cell the research paper can be submitted to the agency.
- VII. The flowchart for the Research Publications is attached.

Publication of Books/Book Chapters

Faculty members are encouraged to write books on their areas of interest. The following are SOP for publication of books.

- I. Area of interests of the faculty members is identified.
- II. Faculty members have to prepare the contents of book which has to be published.
- III. Faculty need to write quality documents following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to publish book will be provided.
- VI. After the approval of the R&D cell the documents in the prescribed format can be submitted to the Publisher based on author's interest.
- VII. The flowchart for the Publication of books is attached.

Patents

Faculties are encouraged to obtain Patent on their research work. The following are SOP for publishing patent.

- I. Research area of interests of the faculty member is identified.
- II. Faculty members have to prepare their documentation for their patents.
- III. Faculty need to write quality patents following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to publish patent will be provided.
- VI. After the approval of the R&D cell the patent can be submitted to the agency.
- VII. The flowchart for the Patent Publications is attached.

23. Incentives and Facilities for Researchers and Research scholars.

- I. Infrastructural facilities like Systems with high speed internet, Library with digital access are provided for Researchers and Research scholars
- II. Incentives :

Incentives for Publication of Research papers/book chapter/book/articles/patents:

To promote research and its allied activities, the faculty is appraised with the following incentives:

International Journal with IF >8.1 or H-Index > 226	- Rs.30000/-
International Journal with 5.1 < IF < 8 or H-Index 151 < HI > 225	-Rs. 25,000/-
International Journal with 2.1 < IF < 5 or H-Index 101 < HI > 150	-Rs. 20,000/-
International Journal with 0.6 < IF < 2 or H-Index 51 < HI < 100	-Rs. 15,000/-
International Journal with IF < 0.5 or H-Index HI < 50	- Rs. 10,000/-
International Journal (Scopus Indexed/ESCI)	- Rs. 10,000/-
International Journal (Scopus Indexed /WOS Indexed)	- Rs. 7,500/-
Scopus Indexed International Conference Registration (Max) [Max. Of 2 Conference per year per faculty]	- Rs. 7,500/-
Book Chapter indexed in Scopus [Not Through Conference, only direct Submission will be Considered]	- Rs. 7,500/-
National Conference Registration fees (Max)	- Rs. 4,000/-
UGC Indexed Journal (Only for English and Management Studies)	- Rs. 2,000/-
Publishing of Text Books: (International Edition by top 60 Publishers in the World)	-Rs. 20,000/-
Publishing of Text Books: (Indian Edition-book should meet the criteria mentioned in guidelines)	- Rs. 10,000/-
Publishing of Book Chapter in Non Scopus Editions	Pro Rata Basis
Publishing an article in a Journal / Magazine	- Rs. 2,000/-
PATENT: Publishing of Patent/Grant of Patent	- Rs. 10,000/-
FUNDED PROJECTS/GRANTS:	
Award of Grant for Conf/Workshop/Seminar	5% of the Grant
Funded Research Project where equipments is not involved	10% of the Grant
Funded Project where equipments is involved	15% of the Grant
MODROBS (Amount >5 Lakhs)	-Rs. 25,000/-
MODROBS (Amount <5 Lakhs)	-Rs. 20,000/-

- III. In order to promote research and development activities, the college extends its full support to students/faculty/staff. Full/Partial financial support is given to all innovative research & development works taken up by the students and faculty.
- IV. The college encourages students, faculty and staff to participate in National/International Conferences, Training programs (IITs/NITs/State Engg. Colleges etc.) by giving financial support viz. course/registration fee, TA/DA etc.
- V. One week additional summer vacation is provided for Researchers.
- VI. Innovative projects by the students will be financially funded based on recommendation of a committee at the department / college level.
- VII. Best final year project / model in each department will be rewarded.

FUNCTIONS

1. To bring enthusiasm among the students and faculty members towards research and innovation.
2. To oversee and supervise research and development activities in the institute and to ensure the performance, by proper monitoring of research projects, publications.
3. To work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase the company's productivity.
4. To set up a firm collaboration with other universities, public and private sectors and identify R&D projects including consultancy services which could be undertaken at the institution.
5. To promote research in various departments of the Institute.
6. To provide smooth functioning and effective management of R&D at the institution.


CO-ORDINATOR - R&D




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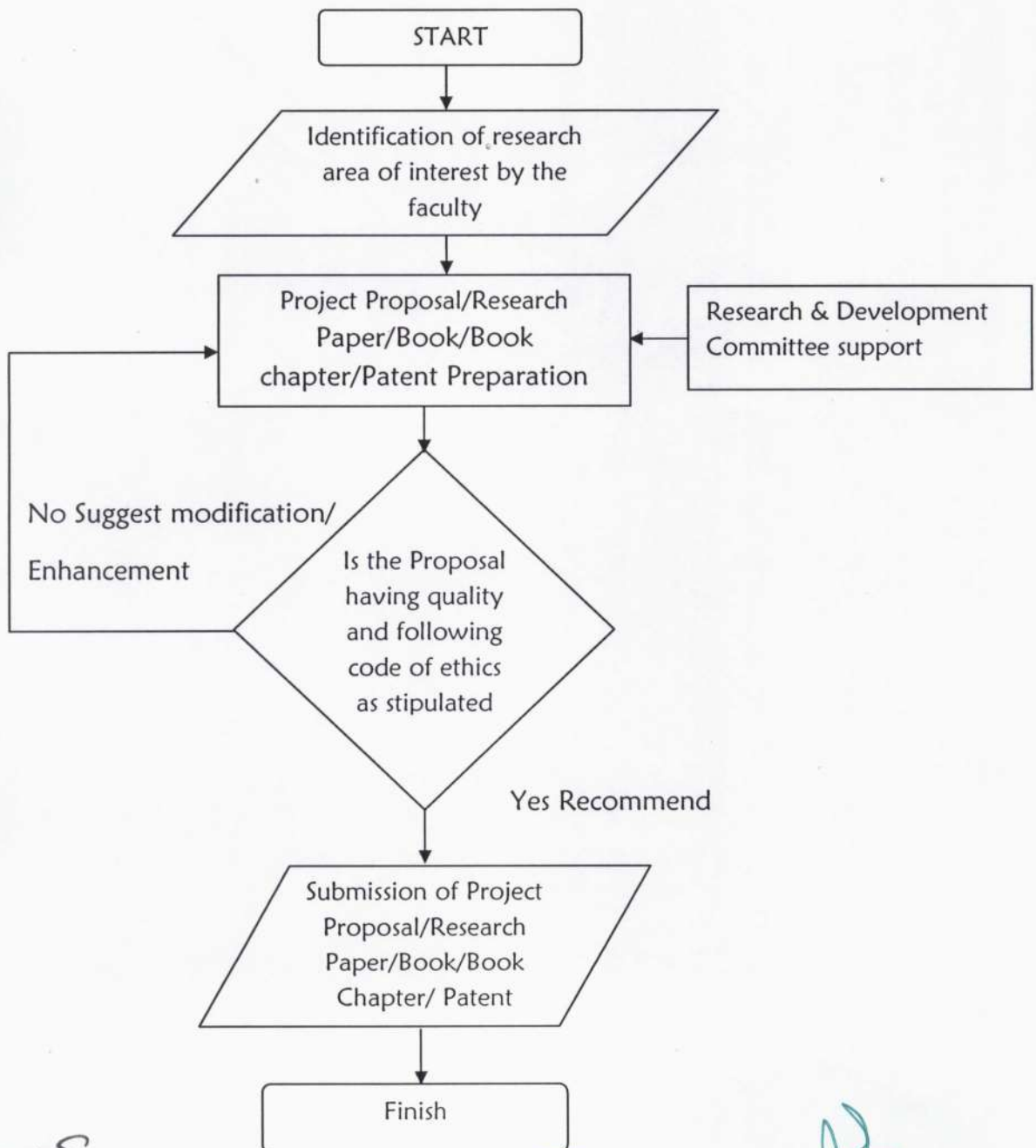
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Date: 21-06-2023

Research and Development cell

Flow Chart




CO-ORDINATOR - R&D




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Ref: ACOE/R&D/2023-24/01/CIRCULAR

Date: 20.07.2023

CIRCULAR

This is to inform you that the R&D Committee meeting is scheduled for 27.07.2023 at 10:00 AM in the Conference Room, Ramanujan Bhavan. All R&D Committee members, the Convener of the EDC cell, the Convener of the IPR cell, and the Convener of the Industry-Institution Interaction Committee are requested to attend the meeting.

AGENDA

1. To deliberate on and draft Standard Operating Procedures (SOP).
2. To assess faculty publications for the academic year 2022-23.
3. To evaluate the research progress of Ph.D. pursuing faculty members during the academic year 2022-23.
4. To scrutinize student publications for the academic year 2022-2023.
5. To strategize and organize Faculty Development Programs (FDPs), Workshops, Seminars, Guest Lectures, etc., aimed at enhancing research endeavors for the academic year 2023-24.
6. To increase the volume of research papers to be published in the academic year 2023-24.
7. Any additional agenda items, subject to approval from the chair


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Cc to: 1. All members of R&D committee

2. Convener-EDC cell,
3. Convener-IPR Cell,
4. Convener, Industry Institution Interaction Committee



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Ref: ACOE/R&D/2023-24/01/Minutes

27-07-2023

MINUTES OF RESEARCH & DEVELOPMENT (R&D) COMMITTEE ACADEMIC YEAR 2023-24

Date of meeting	27 th July 2023	Duration	10.00 AM to 11.30 AM NOON
Venue	Conference room, First floor, Ramanujan Bhavan		
Reference	ACOE/R&D/2023-24/01/CIRCULAR Dated 20.07.2023		

The R&D meeting of Aditya College of Engineering held on 27th July 2023 with the following agenda:

1. To deliberate on and draft Standard Operating Procedures (SOP).
2. To assess faculty publications for the academic year 2022-23.
3. To evaluate the research progress of Ph.D. pursuing faculty members during the academic year 2022-23.
4. To scrutinize student publications for the academic year 2022-2023.
5. To strategize and organize Faculty Development Programs (FDPs), Workshops, Seminars, Guest Lectures, etc., aimed at enhancing research endeavors for the academic year 2023-24.
6. To increase the volume of research papers to be published in the academic year 2023-24.
7. Any additional agenda items, subject to approval from the chair

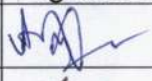
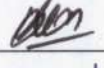
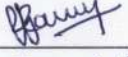
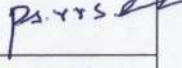
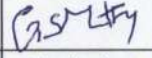
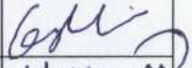
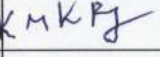
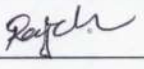
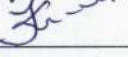
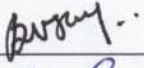
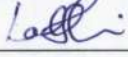
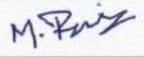

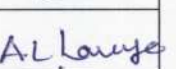


The meeting of R&D Committee commenced with a welcome note by, Dr. A.Ramesh, Chairman, and R&D Committee. The Coordinator, R&D Committee has extended his cordial welcome to all the members and readout the notes on agenda for discussion.

The following points as per the Agenda are discussed and resolutions are adopted.

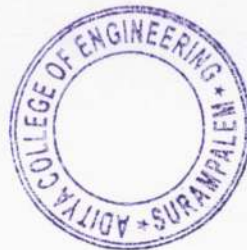
MINUTES AND RESOLUTIONS

1. The SOP was thoroughly discussed by all members, who provided valuable suggestions.
2. A total of 34 research papers were published in both International and National Journals during the academic year 2022-23.
3. Throughout the academic year 2022-23, 28 research papers were presented at International and National conferences.
4. In the academic year 2022-23, 59 patents were both filed and published.
5. The committee conducted a plagiarism check on faculty paper submissions for various journals, offering recommendations based on their findings.
6. Student publications underwent a comprehensive review, with the committee expressing satisfaction and advising improvement in the quality of future student papers.
7. Research incentive policies were discussed, and suggestions were sought to determine if any changes are required.
8. Faculty members are required to attend a minimum of one FDP per semester.
9. Every department is expected to organize at least one workshop.
10. The committee recommended that faculty members publish a minimum of one SCI indexed and two Scopus indexed journal papers annually.
11. Faculty members were strongly advised to use college email IDs for communication related to journal and conference papers.
12. The committee actively encouraged faculty members to pursue an increased number of sponsored projects.
13. The committee suggested conducting various events, such as workshops and guest lectures, to improve research works.
14. The Convener – IIIC proposed the planning of industrial collaborations to enhance research with an industrial focus.
15. Dr. Pullela SVVSR Kumar, the Coordinator, expressed gratitude to all R&D committee members for their attendance and valuable suggestions, contributing to the strengthening of research activities in the institution.

Members attended the meeting on 27th July 2023

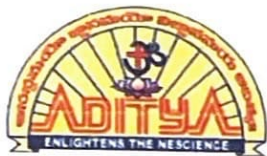
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3.	Dr. R.Raman	Professor – ECE	Co-Coordinator	
4.	Dr. Pullela SVVSR Kumar	Dean – A&A	Member	
5.	Dr. G S N Murthy	HoD – CSE	Member	
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16.	Dr. A. Lakshmi Lavanya	Assistant Professor – H&BS	Member	
17.	Ms. Patrayuni Vijaya Srivalli	Regd. No. 21MH1A04H2 III Year, B.Tech – ECE	Student Member	
18.	Ms. Kada Susmitha	Regd. No. 21MH1A0515 III Year, B.Tech – CSE	Student Member	


CO-ORDINATOR




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27th September, 2023.

CIRCULAR

The R&D Cell will organize "One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies" on September 30, 2023 (Saturday) at the Ramanujan Bhavan Seminar Hall. All doctoral candidates are instructed to attend these guest lectures. Additionally, interested faculty members are welcome to join the lectures. Details of the resource persons are provided below.

Venue: Ramanujan Bhavan Seminar Hall.

S. NO.	Name of the Expert	Title of the Lecture	Time
1	Dr D Linga Raju Professor, Department of Mechanical Engineering, JNTUK, Kakinada	Research Projects and Its Challenges	10.00 AM – 12.30 PM
2	Dr P Vamsi Krishna, Professor, Department of Mechanical Engineering, NITW, Warangal	Drafting a Research proposal for funding agencies	1.30 PM – 4.00 PM.

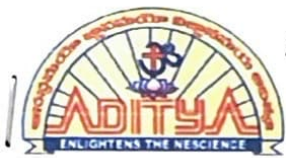
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1. Principal Office.
2. Dean A&A
3. All HoDs.
4. R&D Coordinator.



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EVENT REPORT

Title of the Workshop	: One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies
Resource Persons	: Dr D Linga Raju Professor, Department of Mechanical Engineering, JNTUK, Kakinada. Dr P Vamsi Krishna, Professor, Department of Mechanical Engineering, NITW, Warangal.
Date	: 30 – 09 – 2023
Venue	: Ramanujan Bhavan Seminar Hall.

The R&D Cell organized two insightful guest lectures on research funding proposal drafting, held on September 30, 2023. The first session, conducted from 10:00 AM to 1:00 PM, featured Dr. Lingaraju, an experienced principal investigator in various DST, AICTE, and TEQIP-II projects. In the second session, held from 1:30 PM to 4:30 PM, Prof. Vamsi Krishna, an accomplished DST project investigator, shared his expertise. These lectures were attended by doctoral candidates, research scholars, and interested faculty members, all seeking to enhance their knowledge of research funding.

Research Projects and Its Challenges

Dr. Lingaraju initiated the session with a comprehensive presentation on research funding statistics across universities and colleges. He shared examples of common barriers to securing research funding and discussed the importance of SWOT analysis at the institute and department levels for funding proposals. He highlighted the significance of incentive policies and outlined targeted timelines to enhance faculty research effectiveness.

Dr. Lingaraju provided step-by-step guidance on writing high-quality project proposals and emphasized the importance of timelines in the pre-processing stage. In the pre-processing stage, he emphasized the importance of generating quality publications, attending relevant courses for knowledge enrichment, thorough documentation, and budget preparation. Identifying suitable funding resources was also highlighted as crucial for project success.



One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies by Dr. Lingaraju on 30/09/2023.

During the processing stage, Dr. Lingaraju detailed key activities such as obtaining quotations, securing approvals, equipment procurement, training, financial management, and experimentation. This stage focuses on executing practical aspects while ensuring financial and logistical efficiency. In the post-processing stage, Dr. Lingaraju discussed project reviews, finalizing publications and patents, and preparing and submitting mandatory project documents. He provided insights into various schemes and opening calls from DST, AICTE, UGC, ISRO DRDO, and more. The session concluded with an interactive Q&A session where faculty members had their doubts regarding funding proposals clarified.

Drafting a Research Proposal for Funding Agencies

Prof. Vamsi Krishna took the stage in the afternoon session and provided detailed instructions on drafting effective research proposals. He covered various crucial elements, including the title, research area, abstract, introduction, literature review, methodology, objectives, outcomes, budget, and time schedule. Prof. Vamsi Krishna demonstrated sample-drafted funding proposals, explaining each heading and field thoroughly. He emphasized the importance of collaborative research proposals, involving multiple researchers and working teams. Collaborative research increases the chances of funding acceptance by leveraging diverse expertise, resources, and perspectives, leading to more impactful outcomes.



One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies by Prof. Vamsi Krishna on 30/09/2023.

At the end of the session, faculty members interacted with Prof. Vamsi Krishna, seeking clarification on their doubts. He assured his willingness to collaborate with ACOE in the future, offering to review research proposals and provide suggestions for improvement. He also extended an invitation to the mechanical faculty to utilize the research labs at NIT Warangal.

Overall Feedback from Faculty

Both sessions received overwhelmingly positive feedback from the faculty members in attendance. Dr. Lingaraju and Prof. Vamsi Krishna were praised for their profound expertise in crafting research funding proposals. Their comprehensive understanding of the subject matter and adeptness in navigating the complexities of the research funding process left a lasting impression. The engaging and interactive approach of both speakers effectively conveyed the significance of proposal content and development. Attendees greatly appreciated the practical examples of drafted proposals, which significantly benefited the faculty members present.

No. of Participants: 53

Overall Assessment: Good



Convenor



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RESOURCE PERSON PROFILE

One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies

30-09-2023.




Dr. P. Vamsi Krishna

**Professor Dept. of Mechanical Engineering,
NIT Warangal.**

Dr. P. Vamsi Krishna is a prolific researcher in the field of Mechanical Engineering, specializing in various aspects of machining processes and materials science. Over the years, Dr. [Your Name] has undertaken five significant research projects, securing funding from reputable agencies such as SERB, DST, and NITW. These projects encompass topics ranging from the development of eco-friendly nano cutting fluids for machining to the enhancement of orthopedic implants using rotary ultrasonic-assisted abrasive flow machining. He has also made substantial contributions to academia, guiding several Ph.D. students, supervising numerous PG and UG projects, and publishing extensively in journals and conferences. Their impressive citation record and recognition within the research community reflect their dedication and expertise. Furthermore, He is an accomplished author, having co-authored books and book chapters on subjects like nano-cutting fluids and mechanical properties of materials. They have also edited books and served as a guest editor for renowned journals. He has established strong ties with the industry, collaborating with companies like TATA Sikorsky Aerospace Limited and Advanced Research Centre for Powder Metallurgy and New Materials (ARCI). International collaborations with experts from the USA and Thailand underline their global reach in the field. Moreover, He has been actively involved in academic and administrative roles within their institution, displaying a commitment to education and research. Their extensive experience in organizing seminars, workshops, and training programs adds another layer to their professional accomplishments.


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RESOURCE PERSON PROFILE

One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies

30-09-2023.



Dr. Lingaraju Dumpala

Associate Professor

Department of ME, UCEK (A) JNTUK.

Dr. Lingaraju is a highly accomplished academic and researcher with a strong background in Mechanical Engineering. They obtained their Ph.D. in Mechanical Engineering from Andhra University, Visakhapatnam, in 2011. With a rich academic journey, they have contributed significantly to the field through their research and teaching endeavors. He has held various academic positions, including Associate Professor at JNTUK, Kakinada, where they currently serve as the Associate Professor and Coordinator for FUR. They have also taken on leadership roles as the Head of the Department of PE&PCE and Nodal Officer for JNTUK Digital Financial Literacy.

His research portfolio is extensive, with notable projects such as their work on water quality in endemic kidney disease in coastal Srikakulam and the synthesis of engineering properties of metal matrix nanocomposites. They have received multiple grants and awards, including the DST Young Scientist Award in 2013 and the AP State Best Teacher Award in 2023. Their prolific research output includes numerous publications in international journals and conferences, supervision of Ph.D. candidates, and the filing of Indian patents. He is a recognized figure in the field, evident from their substantial citation count, H-index, and contributions through expert talks and workshops. His dedication to both academia and research underscores their significant impact on Mechanical Engineering.


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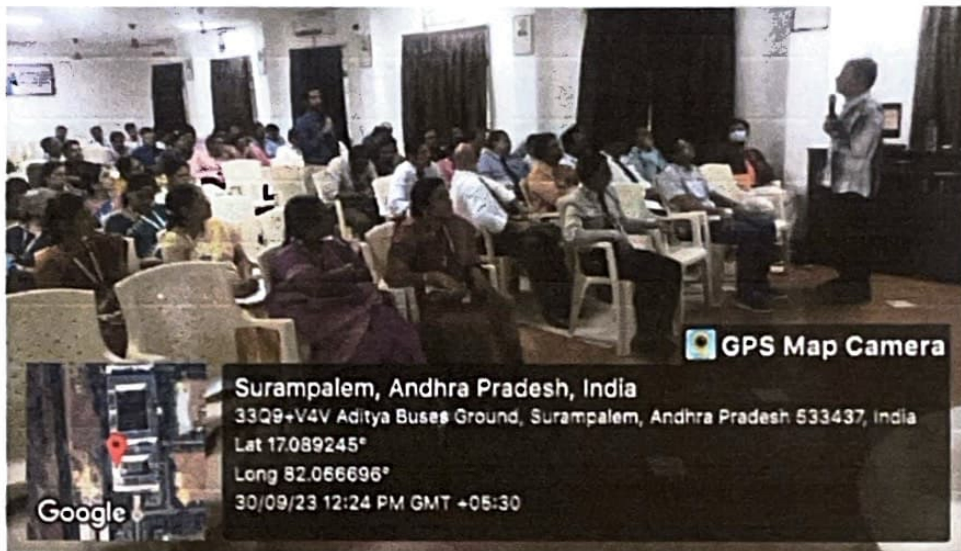
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Photos




One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies by Dr. Lingaraju on 30/09/2023.



One Day Guest Lectures on Challenges and Drafting Research Proposals for Funding Agencies by Prof. Vamsi Krishna on 30/09/2023.


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